

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	19	("4885715" "4974187" "5109356" "5477859" "5629929" "5917446" "6154443" "6598009" "6606058").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 16:28
S2	9	(US-4885715-\$ or US-4974187-\$ or US-5109356-\$ or US-5477859-\$ or US-5629929-\$ or US-5917446-\$ or US-6154443-\$ or US-6598009-\$ or US-6606058-\$).did.	USPAT	OR	ON	2007/04/10 16:34
S3	9	(US-6154443-\$ or US-6598009-\$ or US-6606058-\$ or US-5109356-\$ or US-5477859-\$ or US-5629929-\$ or US-4974187-\$ or US-4885715-\$ or US-5917446-\$).did.	USPAT	OR	ON	2007/04/14 12:38
S4	1	S3 and (receiv\$3 or reception) and (despread\$3) and ((direct near3 sequence) or DSSS or CDMA) and (antenna near3 (array or elements))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:14
S5	1	S3 and (FFT or (fourier near3 transform\$3)) and (beamform\$4 or "beam-former" or "beam-forming" or (beam adj form\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:54

## EAST Search History

S6	186	("4998261" "5629929" "5671247" "5874913" "6005889" "6359923" "6363102" "20050147155" "5642377" "5809060" "5982809" "6134260" "5241561" "5243622" "5289499" "5394435" "5809061" "5881098" "5892792" "5920589" "5950124" "5966416" "5999561" "6005883" "6026118" "6052408" "6075812" "6128512" "6132306" "6134263" "6263009" "6263011" "6331998" "6345073" "6356580" "6411646" "6473449" "6639939" "6647077" "6700929" "6732163" "6744807" "6798825" "6862313" "6865216" "6947471" "6980583" "7012884" "7031371" "7088673" "7130658" "7161974" "20020050983" "20020191676" "20030053525" "20030086364" "20030086365" "20030216154" "20040052301" "20040127184" "20040258131" "20060072602" "20060133332" "20060274817" "6111538" "6100827" "6388360" "6426977" "6754170" "20040091055" "20050094550" "20050099939" "20050105505" "20060198473" "20060199558" "20060274820" "5610907" "5377225" "5535238" "5909641" "6144696" "5299226" "5400359" "5568473" "5631921" "5719899" "5799000" "5850393" "5864543" "5872814" "5875208" "5894473" "5896425" "5898728" "5907577" "5914981" "5930287" "5943375" "5953365" "5956368" ).pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 12:57
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# EAST Search History

S7	186	(US-20020050983-\$ or US-20020191676-\$ or US-20030053525-\$ or US-20030086365-\$ or US-20030086364-\$ or US-20030216154-\$ or US-20040052301-\$ or US-20040091055-\$ or US-20040127184-\$ or US-20040258131-\$ or US-20050094550-\$ or US-20050099939-\$ or US-20050105505-\$ or US-20050147155-\$ or US-20060072602-\$ or US-20060133332-\$ or US-20060199558-\$ or US-20060198473-\$ or US-20060274820-\$ or US-20060274817-\$).did. or (US-4998261-\$ or US-5241561-\$ or US-5243622-\$ or US-5289499-\$ or US-5299226-\$ or US-5377225-\$ or US-5394435-\$ or US-5400359-\$ or US-5535238-\$ or US-5568473-\$ or US-5610907-\$ or US-5629929-\$ or US-5631921-\$ or US-5642377-\$ or US-5671247-\$ or US-5719899-\$ or US-5799000-\$ or US-5809061-\$ or US-5809060-\$ or US-5850393-\$ or US-5864543-\$ or US-5872814-\$ or US-5875208-\$ or US-5874913-\$ or US-5881098-\$ or US-5892792-\$). did. or (US-5894473-\$ or US-5896425-\$ or US-5898728-\$ or US-5907577-\$ or US-5909641-\$ or US-5914981-\$ or US-5920589-\$ or US-5930287-\$ or US-5943375-\$ or US-5950124-\$ or US-5953365-\$ or US-5956368-\$ or US-5966416-\$ or US-5982809-\$ or US-5999561-\$ or US-6005889-\$ or US-6005883-\$ or US-6026118-\$ or US-6052408-\$ or US-6075812-\$ or US-6100827-\$ or US-6111538-\$ or US-6128512-\$ or US-6134263-\$ or US-6134260-\$ or US-6132306-\$ or US-6144696-\$). did. or (US-6263011-\$ or US-6263009-\$ or US-6331998-\$ or US-6345073-\$ or US-6356580-\$ or US-6359923-\$ or US-6363102-\$ or US-6388360-\$ or US-6411646-\$ or US-6426977-\$ or US-6473449-\$ or US-6639939-\$ or US-6647077-\$ or US-6700929-\$ or US-6732163-\$ or US-6744807-\$ or US-6754170-\$ or US-6798825-\$ or US-6862313-\$ or US-6865216-\$ or US-6947471-\$ or US-6980583-\$ or US-7017884-\$ or	US-PGPUB; USPAT; DERWENT	OR	ON	2007/04/14 12:57
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4/14/2007 6:34:22 PM C:\Documents and Settings\AdSouza\My Documents\FAST\Workspaces\10754001.wsp Page 3						

## EAST Search History

S8	2	S3 and (transform and (beamform\$4 or "beam-former" or "beam-forming" or (beam adj form\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:15
S9	222	("4215401"   "4489393"   "4493080"   "4533993"   "4601005"   "4639857"   "4686645"   "4694407"   "4701876"   "4811271"   "4833635"   "4929954"   "4962508"   "4998111"   "5117238"   "5142649"   "5229933"   "5363401"   "5371506"   "5377223"   "5416712"   "5511068"   "5534875"   "5544196"   "5553062"   "5568473"   "5600326"   "5629929"   "5634199"   "5757677"   "5778324"   "5848060"   "5978744"   "6009089"   "6018315"   "6229481"   "6278404"   "6407699").PN. OR ("4885715"   "4974187"   "5109356"   "5477859"   "5629929"   "5917446"   "6154443"   "6598009"   "6606058").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/14 13:00
S10	24	S9 and (FFT or transform or (fourier near3 transform\$3)) and (beamform\$4 or "beam-former" or "beam-forming" or (beam adj form\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:00
S11	17	S10 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:18
S12	4	S7 and ((FFT or transform) and (beamform\$4 or "beam-former" or "beam-forming" or (beam adj form\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:55
S13	2	S12 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:30

## EAST Search History

S14	1	S13 and (beam\$10 with (FFT or transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:21
S15	701	(FFT or (fourier near3 transform\$3) or transform) with (beamform\$4 or "beam-former" or "beam-forming" or (beam adj form\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:29
S16	410	S15 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:41
S17	154	S16 and (inverse or IFFT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:34
S18	18	S17 and ((direct near3 sequence) or CDMA)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:35
S19	1	(US-6061553-\$).did.	USPAT	OR	ON	2007/04/14 13:52
S20	4	(US-6598009-\$ or US-5477859-\$ or US-6359923-\$ or US-6061553-\$).did.	USPAT	OR	ON	2007/04/14 14:01
S21	3	S20 and (FFT or (fourier near3 transform\$3)) and (beamform\$4 or "beam-former" or "beam-forming" or (beam adj form\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:54
S22	3	S20 and ((FFT or transform) and (beamform\$4 or "beam-former" or "beam-forming" or (beam adj form\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 13:58

## EAST Search History

S23	1	S20 and butler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:01
S24	1	(US-5831977-\$).did.	USPAT	OR	ON	2007/04/14 14:02
S25	2	S11 and "401"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:18
S26	3	(US-5831977-\$ or US-6359923-\$ or US-6598009-\$).did.	USPAT	OR	ON	2007/04/14 14:23
S27	0	(CDMA or (spread near2 spectrum)) and (digital near3 downconver\$4) and (presummer) and (baseband)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:39
S28	0	(CDMA or (spread near2 spectrum)) and (digital near3 downconver\$4) and (presummer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:39
S29	0	(CDMA or (spread near2 spectrum)) and (digital near3 downconver\$4) and (presummer) and (baseband)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:40
S30	0	(CDMA or (spread near2 spectrum)) and (digital near3 downconver\$4) and (presummer) and ("base band")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:40
S31	0	(CDMA or (spread near2 spectrum)) and (digital near3 downconver\$4) and (presummer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:45

## EAST Search History

S32	0	(digital near3 downconver\$4) and (presummer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:40
S33	1	(digital near3 (down adj conver\$4)) and (presummer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:41
S34	41	(presummer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:41
S35	34	S34 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:47
S36	20	S35 and (downconver\$5 or (down adj conver\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:46
S37	20	S36 and (presummer or (pre adj summ\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:42
S38	20	S36 and (presumm\$2 or (pre adj summ\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:42
S39	2536	(digital near5 (downconver\$5 or (down adj conver\$5))) and (baseband or "base band")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:46

## EAST Search History

S40	1396	S39 and (CDMA or spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:47
S41	624	S40 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:03
S42	0	S41 and (presumm\$3 or (pre adj summ\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:47
S43	65	S41 and (digital adj down\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:49
S44	65	S43 and receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 14:49
S45	1	(US-5375146-\$).did.	USPAT	OR	ON	2007/04/14 14:54
S46	76	(multiaccess or (multi adj access)) adj3 (memory or RAM)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:20
S47	58	S46 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:12
S48	0	S47 and ((multiaccess or (multi adj access)) same (ping adj2 pong))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:07



## EAST Search History

S49	1	S47 and ((multiaccess or (multi adj access)) and (ping adj2 pong))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:12
S50	2	((multiaccess or (multi adj access)) same (ping adj2 pong))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:07
S51	228	(ping near3 pong) with (ram or (random near3 access))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:12
S52	200	S51 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:20
S53	52	S52 and (CDMA or spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:13
S54	40	S53 and receiver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:13
S55	1	(US-5214768-\$).did.	USPAT	OR	ON	2007/04/14 15:16
S56	8	((multiaccess or (multi adj access)) adj3 (memory or RAM)) same (multiplexer or mux)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:20
S57	5	S56 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:42

## EAST Search History

S58	0	multipli\$5 same (("code-nulling" or (code adj null\$4)) and ((beam adj forming) adj5 weights))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:41
S59	0	multipli\$5 same (("code-nulling" or (code adj null\$4)) same ((beam adj forming) adj5 weights))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:41
S60	140	multipli\$5 same (weight or coefficient) same (beam adj forming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 15:42
S61	68	S60 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 16:28
S62	8	S61 and (beam with (coefficient or weight)) and (spread with (weight or coefficient))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 16:07
S63	11	S61 and (beam same (coefficient or weight)) and (spread same (weight or coefficient))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 16:07
S64	1	(US-5510796-\$).did.	USPAT	OR	ON	2007/04/14 16:18
S65	57	(despread\$3 same (FFT or transform)) and (beamform\$3 or (beam adj form\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 16:27
S66	25	S65 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:04

## EAST Search History

S67	315	((spreading near3 code) with (transform or FFT)) or (((frequency or transform) near3 domain) with (spreading near3 code))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:13
S68	25	S66 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:05
S69	143	S67 and @pd<"20040107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:05
S70	67	S69 and (despread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:12
S71	6	(US-6598009-\$ or US-6359923-\$ or US-5831977-\$ or US-5375146-\$ or US-5214768-\$ or US-5510796-\$). did.	USPAT	OR	ON	2007/04/14 17:21
S72	3	S71 and doppler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:21
S73	6	(US-6598009-\$ or US-6359923-\$ or US-5831977-\$ or US-5375146-\$ or US-5214768-\$ or US-5510796-\$). did.	USPAT	OR	ON	2007/04/14 17:49
S74	0	S6 and "L6"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:49
S75	1	S6 and S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/14 17:49

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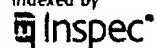
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## » Key

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Wu, H.; Ping, L.; Perotti, A.;

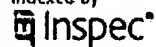
[Electronics Letters](#)

Volume 42, Issue 4, 16 Feb. 2006 Page(s):233 - 234

Digital Object Identifier 10.1049/el:20063770

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IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- 
**1. A novel beamformer for circular sonar arrays**  
 Bahl, R.; Indiresan, P.;  
[Acoustics, Speech, and Signal Processing, IEEE International Conference on](#)  
 Volume 6, Apr 1981 Page(s):1050 - 1053  
[AbstractPlus](#) | Full Text: [PDF\(152 KB\)](#) IEEE CNF  
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**2. Chebyshev optimization of sparse FIR filters using linear programming w application to beamforming**  
 Webb, J.L.H.; Munson, D.C., Jr.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Sig IEEE Transactions on\]](#)  
 Volume 44, Issue 8, Aug. 1996 Page(s):1912 - 1922  
 Digital Object Identifier 10.1109/78.533712  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1036 KB\)](#) IEEE JNL  
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- 
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